FIG. 1

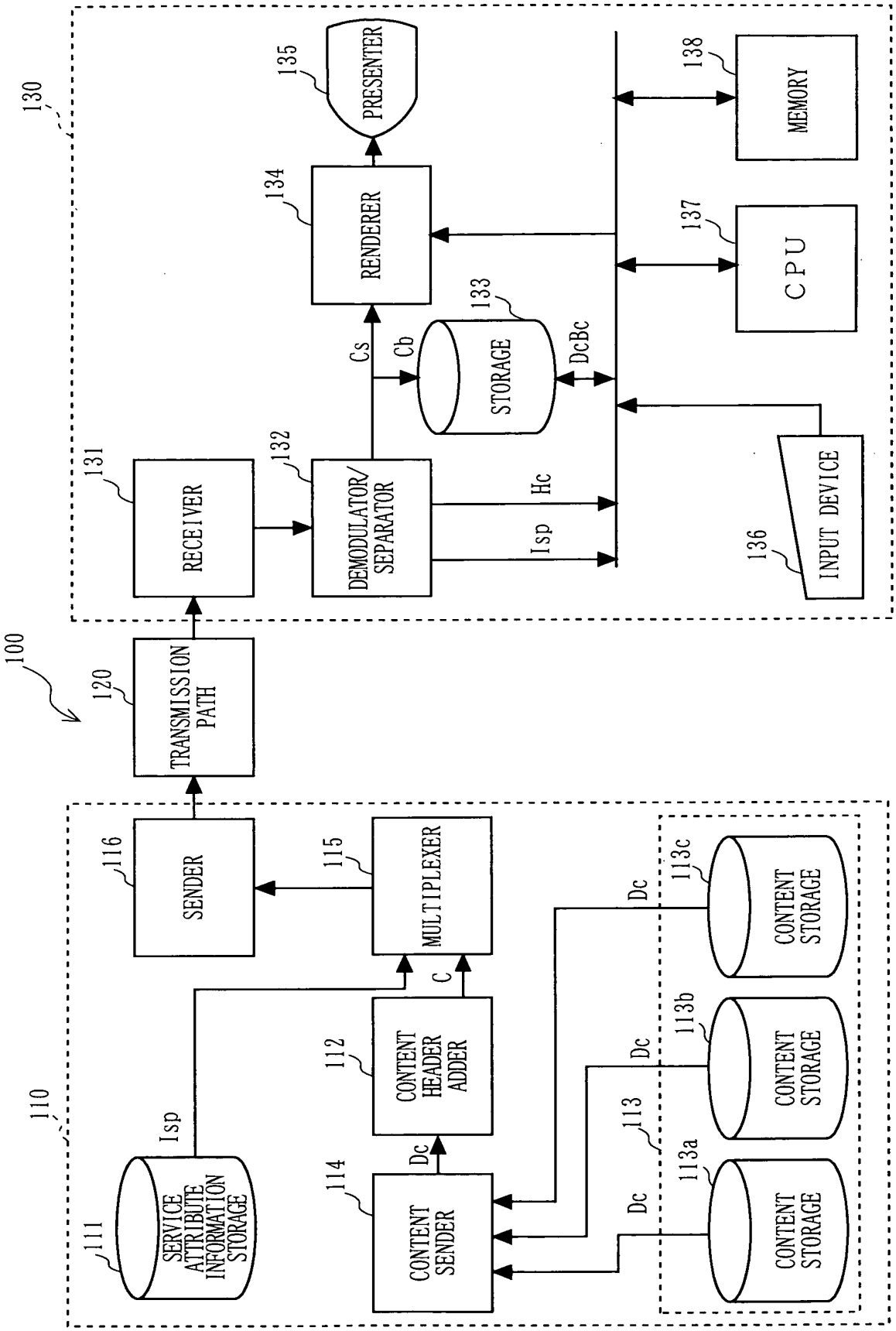

100
110
111
SERVICE ATTRIBUTE INFORMATION STORAGE
Isp
112
CONTENT HEADER ADDER
C
114
CONTENT SENDER
Dc
113
113a
CONTENT STORAGE
113b
CONTENT STORAGE
113c
CONTENT STORAGE
115
MULTIPLEXER
116
SENDER
120
TRANSMISSION PATH
130
131
RECEIVER
132
DEMODULATOR/ SEPARATOR
Hc
Isp
133
STORAGE
Cs
Cb
DcBc
134
RENDERER
135
PRESENTER
136
INPUT DEVICE
137
CPU
138
MEMORY

FIG. 2

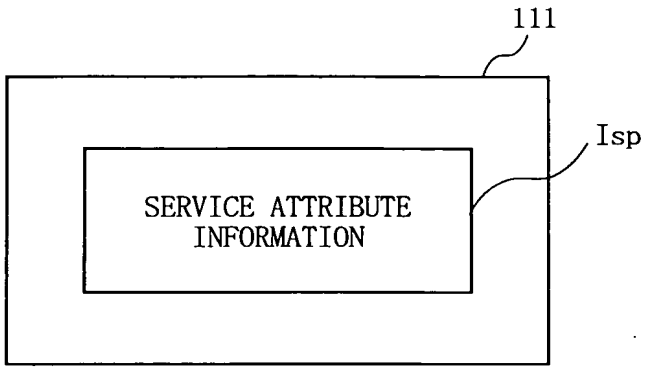

111
Isp
SERVICE ATTRIBUTE INFORMATION

FIG. 3

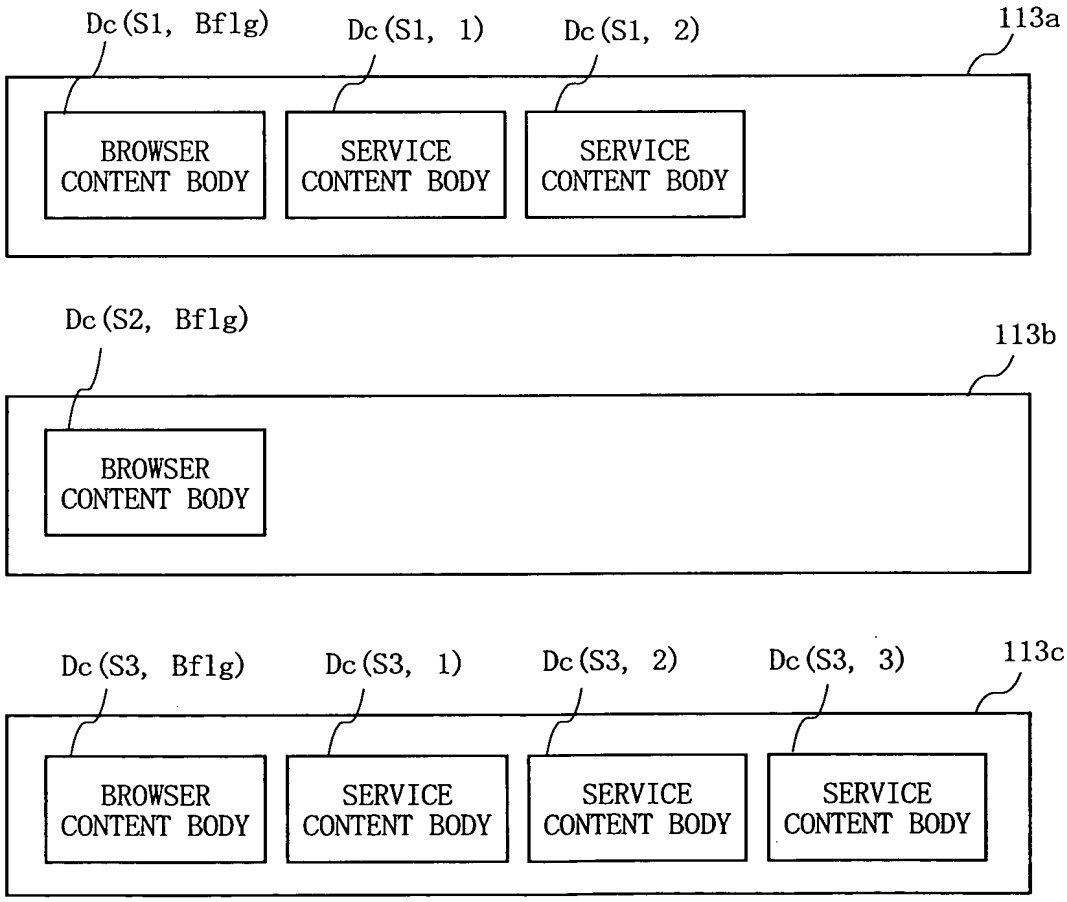
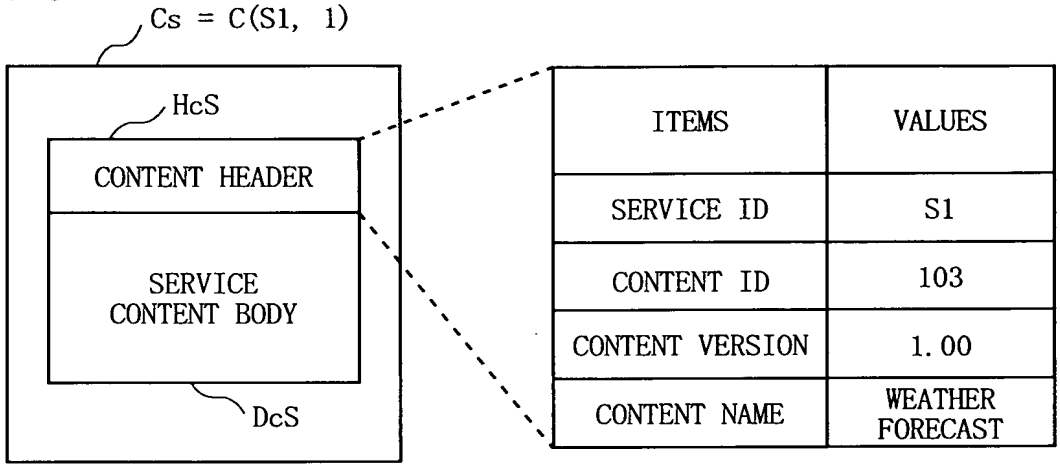

Dc(S1, Bflg)
Dc(S1, 1)
Dc(S1, 2)
113a
BROWSER CONTENT BODY
SERVICE CONTENT BODY
SERVICE CONTENT BODY
Dc(S2, Bflg)
113b
BROWSER CONTENT BODY
Dc(S3, Bflg)
Dc(S3, 1)
Dc(S3, 2)
Dc(S3, 3)
113c
BROWSER CONTENT BODY
SERVICE CONTENT BODY
SERVICE CONTENT BODY
SERVICE CONTENT BODY

FIG. 4

Isp

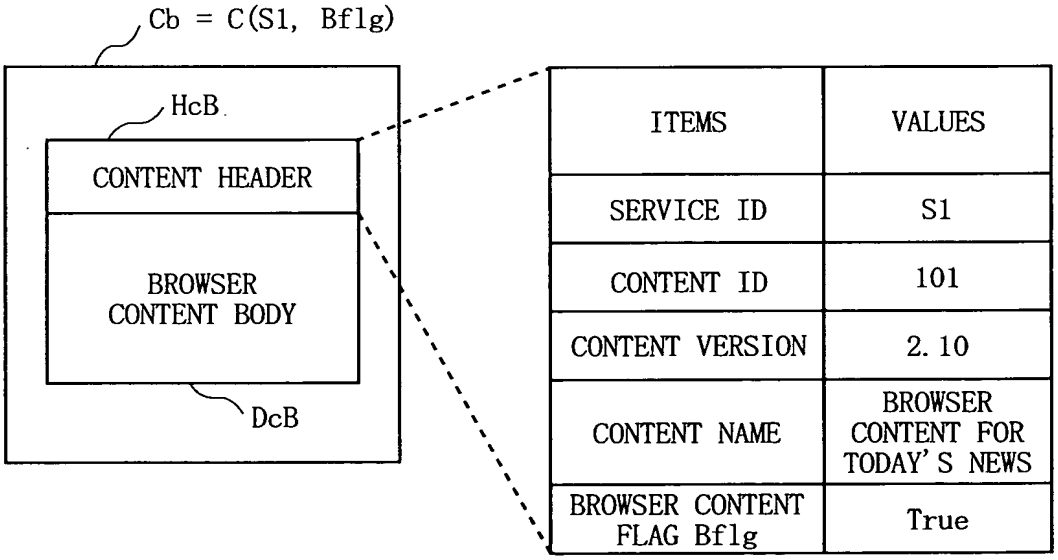
SERVICE ID	SERVICE NAME
S 1	TODAY'S NEWS
S 2	RECOMMENDATION INFORMATION
S 3	NEW CAR GUIDE

FIG. 5



ITEMS	VALUES
SERVICE ID	S1
CONTENT ID	103
CONTENT VERSION	1.00
CONTENT NAME	WEATHER FORECAST

FIG. 6



ITEMS	VALUES
SERVICE ID	S1
CONTENT ID	101
CONTENT VERSION	2.10
CONTENT NAME	BROWSER CONTENT FOR TODAY'S NEWS
BROWSER CONTENT FLAG Bflg	True

FIG. 7

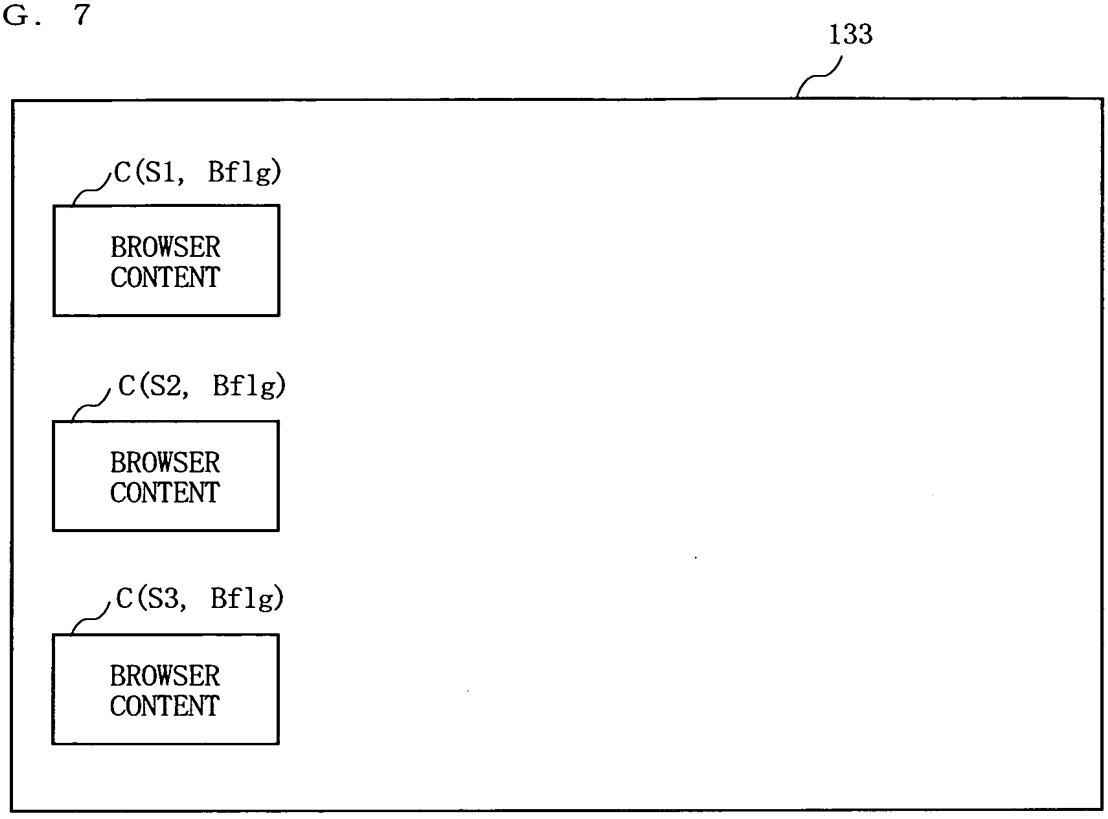

133
C(S1, Bflg)
BROWSER CONTENT
C(S2, Bflg)
BROWSER CONTENT
C(S3, Bflg)
BROWSER CONTENT

FIG. 8

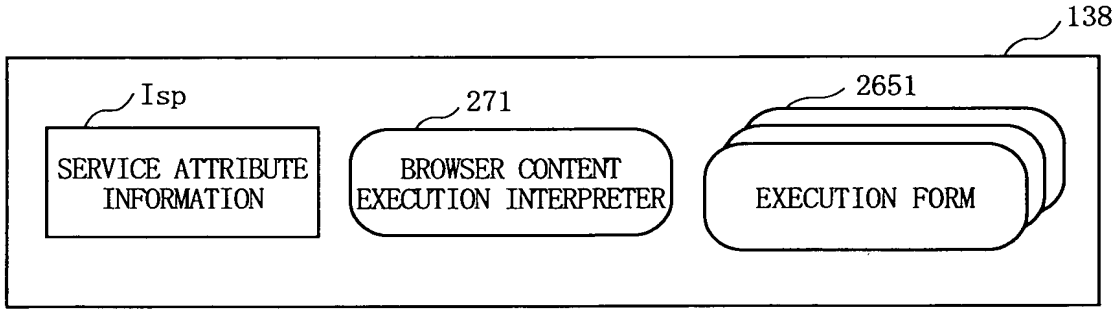

138
Isp
SERVICE ATTRIBUTE INFORMATION
271
BROWSER CONTENT EXECUTION INTERPRETER
2651
EXECUTION FORM

FIG. 9

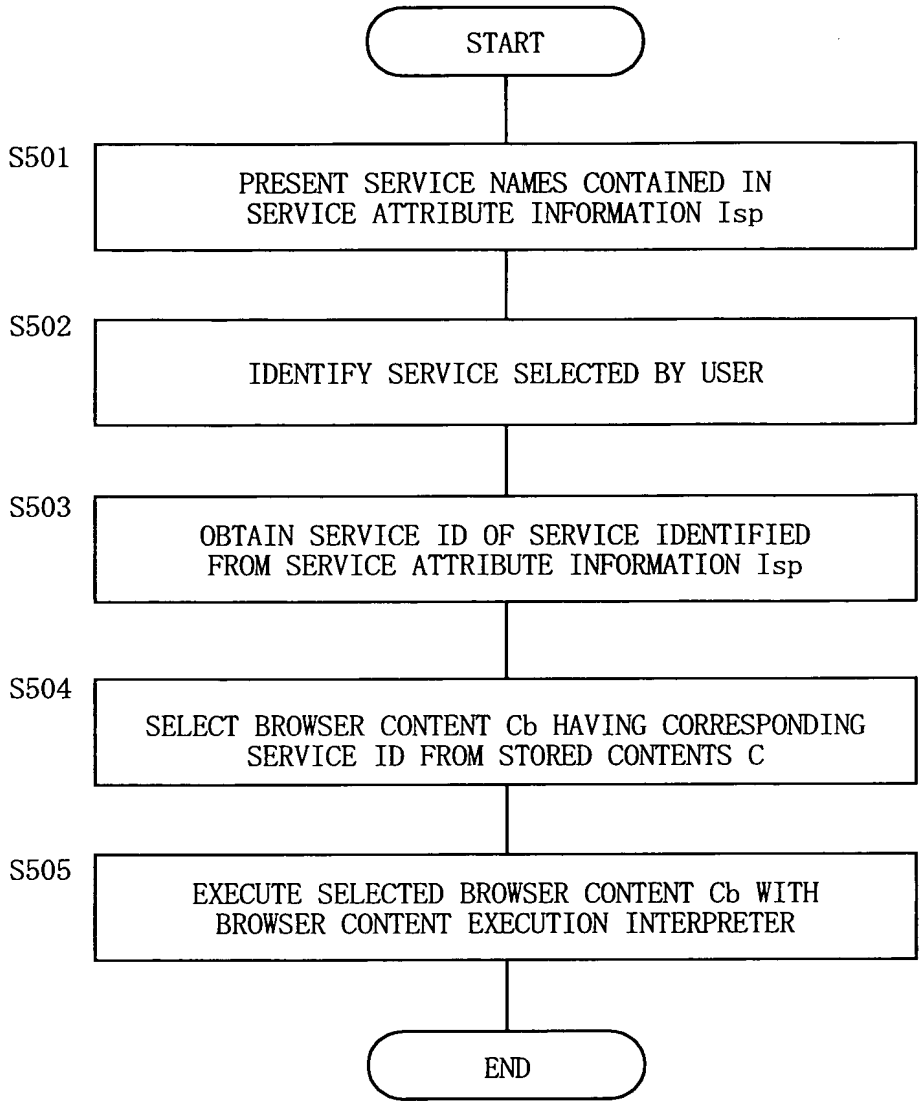

START
S501
PRESENT SERVICE NAMES CONTAINED IN SERVICE ATTRIBUTE INFORMATION Isp
S502
IDENTIFY SERVICE SELECTED BY USER
S503
OBTAIN SERVICE ID OF SERVICE IDENTIFIED FROM SERVICE ATTRIBUTE INFORMATION Isp
S504
SELECT BROWSER CONTENT Cb HAVING CORRESPONDING SERVICE ID FROM STORED CONTENTS C
S505
EXECUTE SELECTED BROWSER CONTENT Cb WITH BROWSER CONTENT EXECUTION INTERPRETER
END

FIG. 10

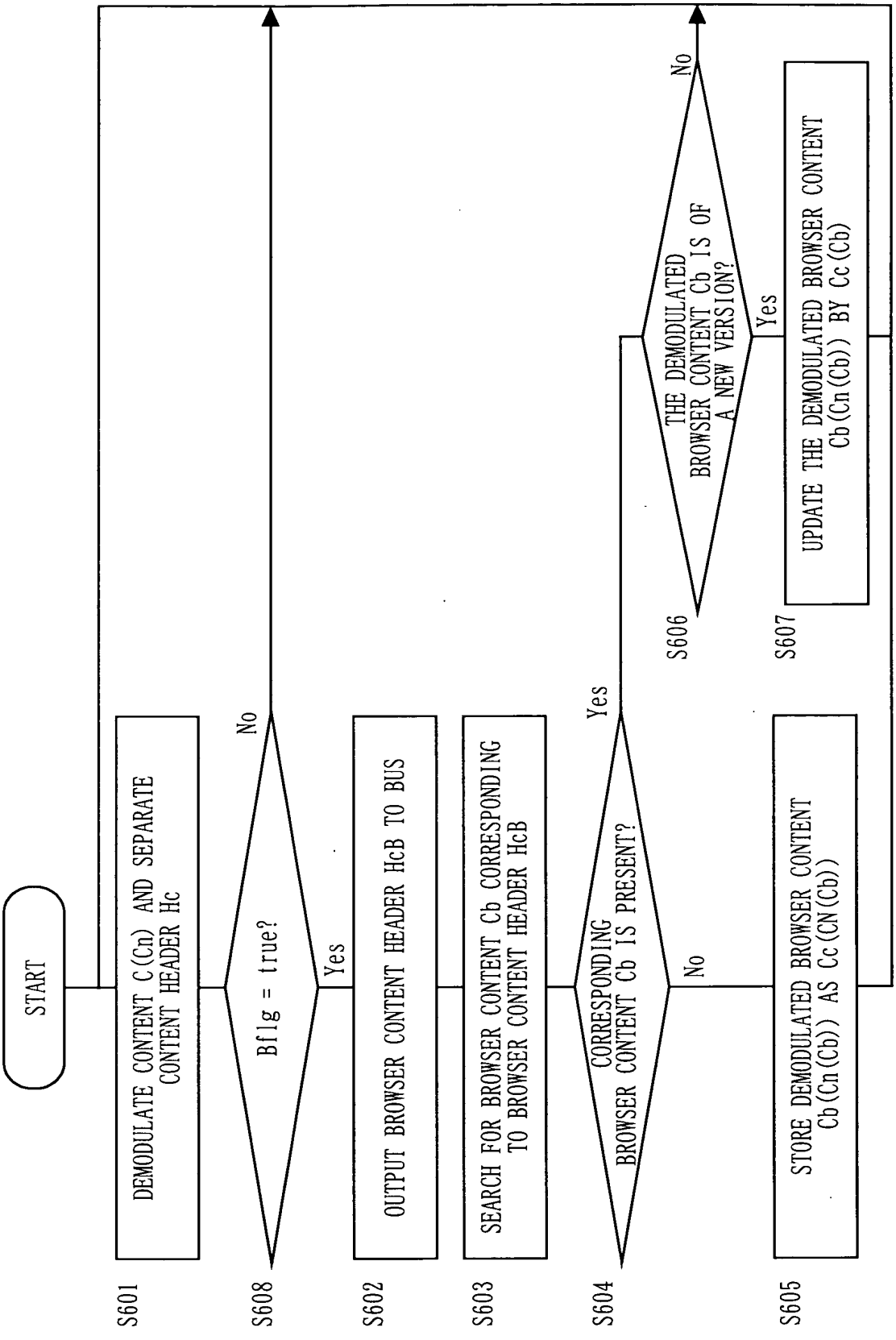

START
S601
DEMODULATE CONTENT C(Cn) AND SEPARATE CONTENT HEADER Hc
S608
Bflg = true?
No
Yes
S602
OUTPUT BROWSER CONTENT HEADER HcB TO BUS
S603
SEARCH FOR BROWSER CONTENT Cb CORRESPONDING TO BROWSER CONTENT HEADER HcB
S604
CORRESPONDING BROWSER CONTENT Cb IS PRESENT?
Yes
No
S606
THE DEMODULATED BROWSER CONTENT Cb IS OF A NEW VERSION?
No
Yes
S605
STORE DEMODULATED BROWSER CONTENT Cb(Cn(Cb)) AS Cc(CN(Cb))
S607
UPDATE THE DEMODULATED BROWSER CONTENT Cb(Cn(Cb)) BY Cc(Cb)

FIG. 11

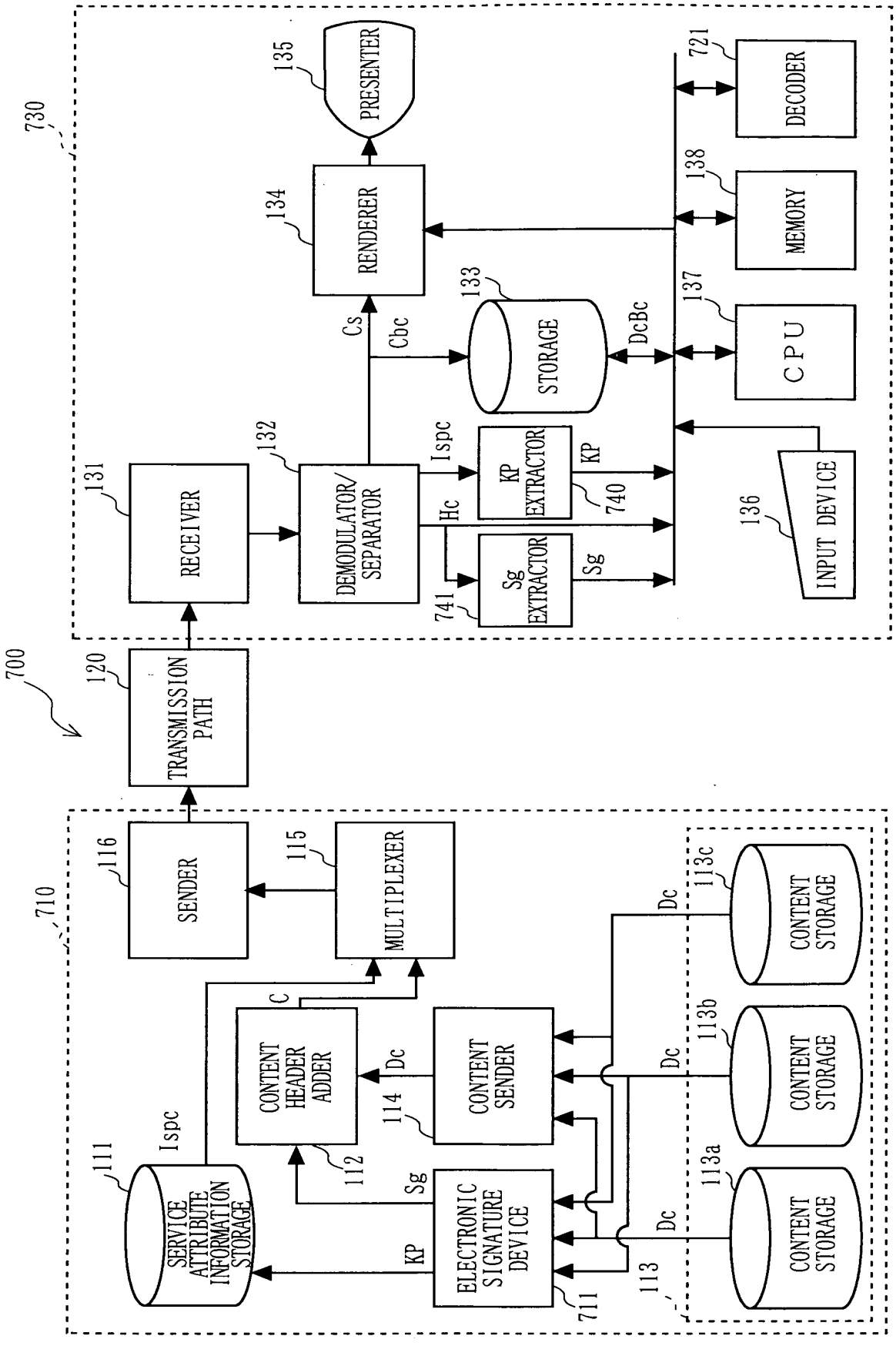
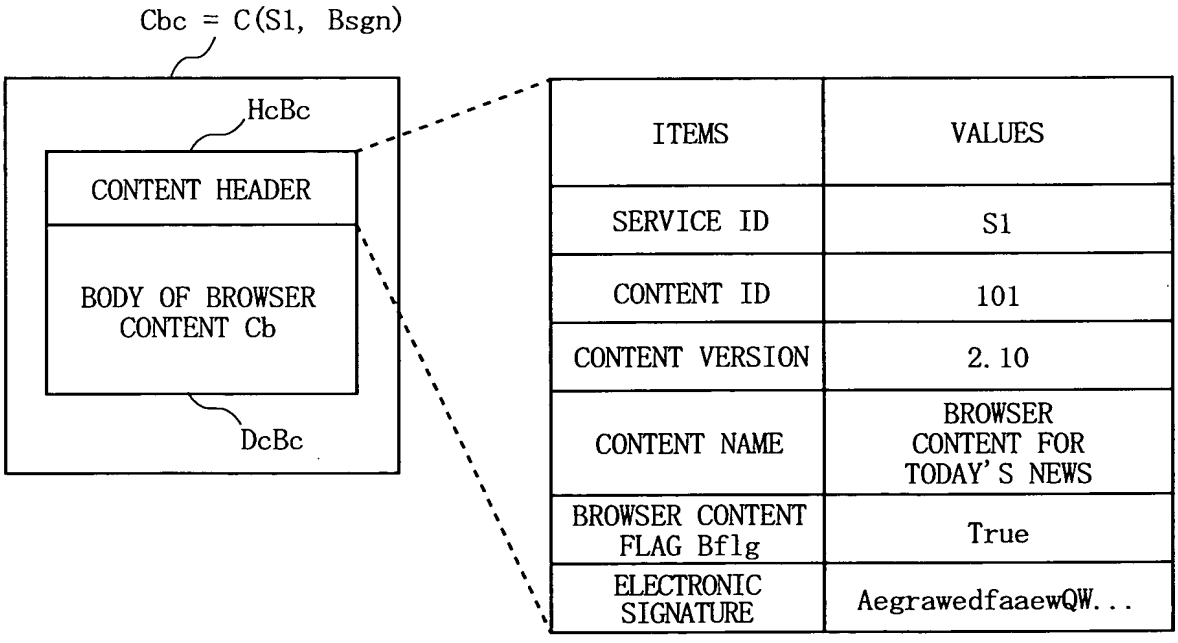

700
710
730
111
SERVICE ATTRIBUTE INFORMATION STORAGE
Ispc
KP
112
CONTENT HEADER ADDER
C
Dc
114
CONTENT SENDER
Sg
ELECTRONIC SIGNATURE DEVICE
711
113
113a
CONTENT STORAGE
113b
CONTENT STORAGE
113c
CONTENT STORAGE
115
MULTIPLEXER
116
SENDER
120
TRANSMISSION PATH
131
RECEIVER
132
DEMODULATOR/ SEPARATOR
Hc
Ispc
KP EXTRACTOR
740
Sg EXTRACTOR
741
Sg
Cs
Cbc
133
STORAGE
DcBc
134
RENDERER
135
PRESENTER
136
INPUT DEVICE
137
CPU
138
MEMORY
721
DECODER

FIG. 12

Ispc

SERVICE ID	SERVICE NAME	PUBLIC KEY
S 1	TODAY'S NEWS	7uBJ8jbjUjBikj...
S 2	RECOMMENDATION INFORMATION	IIInn;ppIhbnOI...
S 3	NEW CAR GUIDE	INopdokIOIpOp...

FIG. 13



ITEMS	VALUES
SERVICE ID	S1
CONTENT ID	101
CONTENT VERSION	2.10
CONTENT NAME	BROWSER CONTENT FOR TODAY'S NEWS
BROWSER CONTENT FLAG Bflg	True
ELECTRONIC SIGNATURE	AegrawedfaaewQW...

FIG. 14

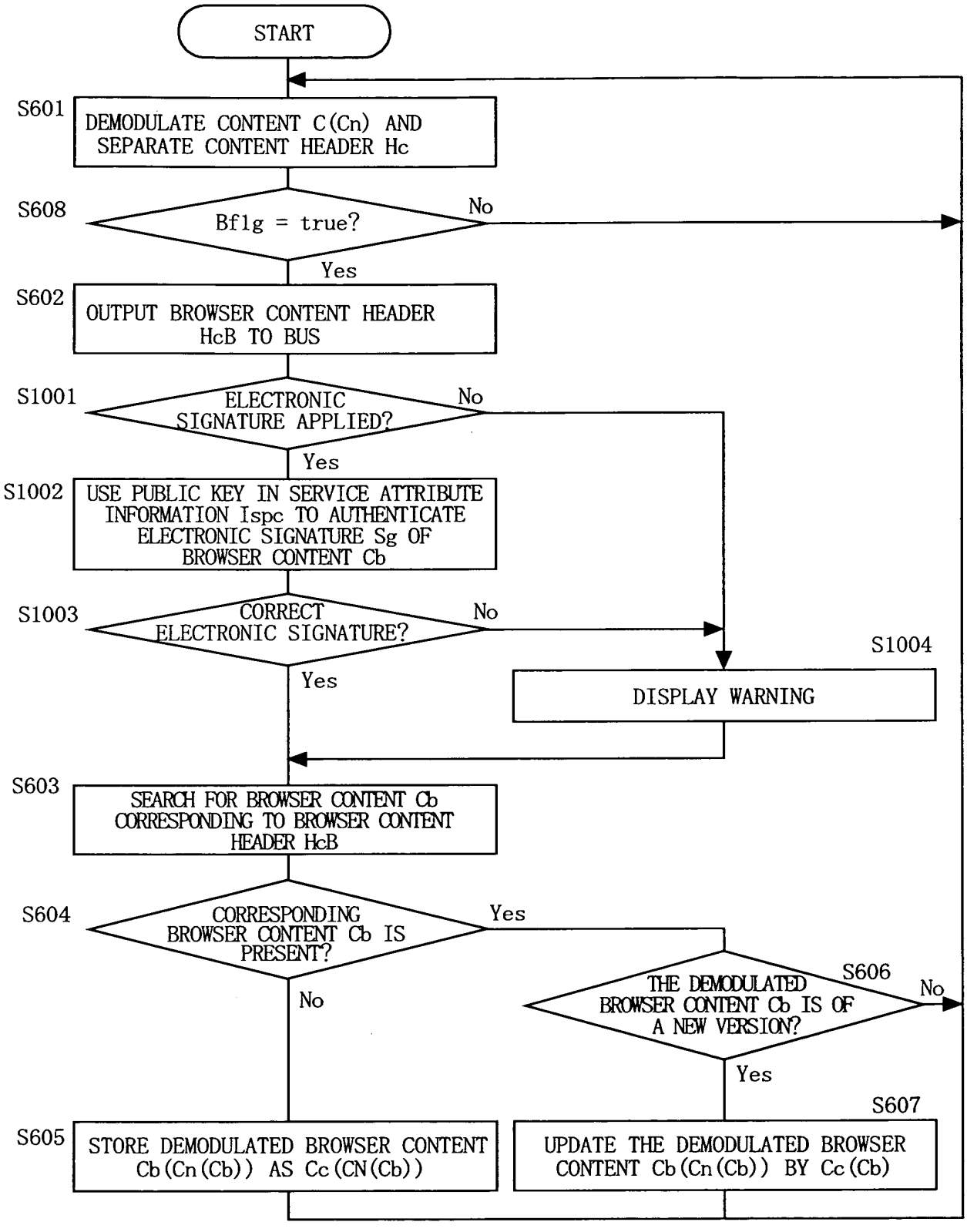

START
S601
DEMODULATE CONTENT C(Cn) AND SEPARATE CONTENT HEADER Hc
S608
Bflg = true?
No
Yes
S602
OUTPUT BROWSER CONTENT HEADER HcB TO BUS
S1001
ELECTRONIC SIGNATURE APPLIED?
No
Yes
S1002
USE PUBLIC KEY IN SERVICE ATTRIBUTE INFORMATION Ispc TO AUTHENTICATE ELECTRONIC SIGNATURE Sg OF BROWSER CONTENT Cb
S1003
CORRECT ELECTRONIC SIGNATURE?
No
Yes
S1004
DISPLAY WARNING
S603
SEARCH FOR BROWSER CONTENT Cb CORRESPONDING TO BROWSER CONTENT HEADER HcB
S604
CORRESPONDING BROWSER CONTENT Cb IS PRESENT?
Yes
No
S606
THE DEMODULATED BROWSER CONTENT Cb IS OF A NEW VERSION?
No
Yes
S605
STORE DEMODULATED BROWSER CONTENT Cb(Cn(Cb)) AS Cc(CN(Cb))
S607
UPDATE THE DEMODULATED BROWSER CONTENT Cb(Cn(Cb)) BY Cc(Cb)

FIG. 15

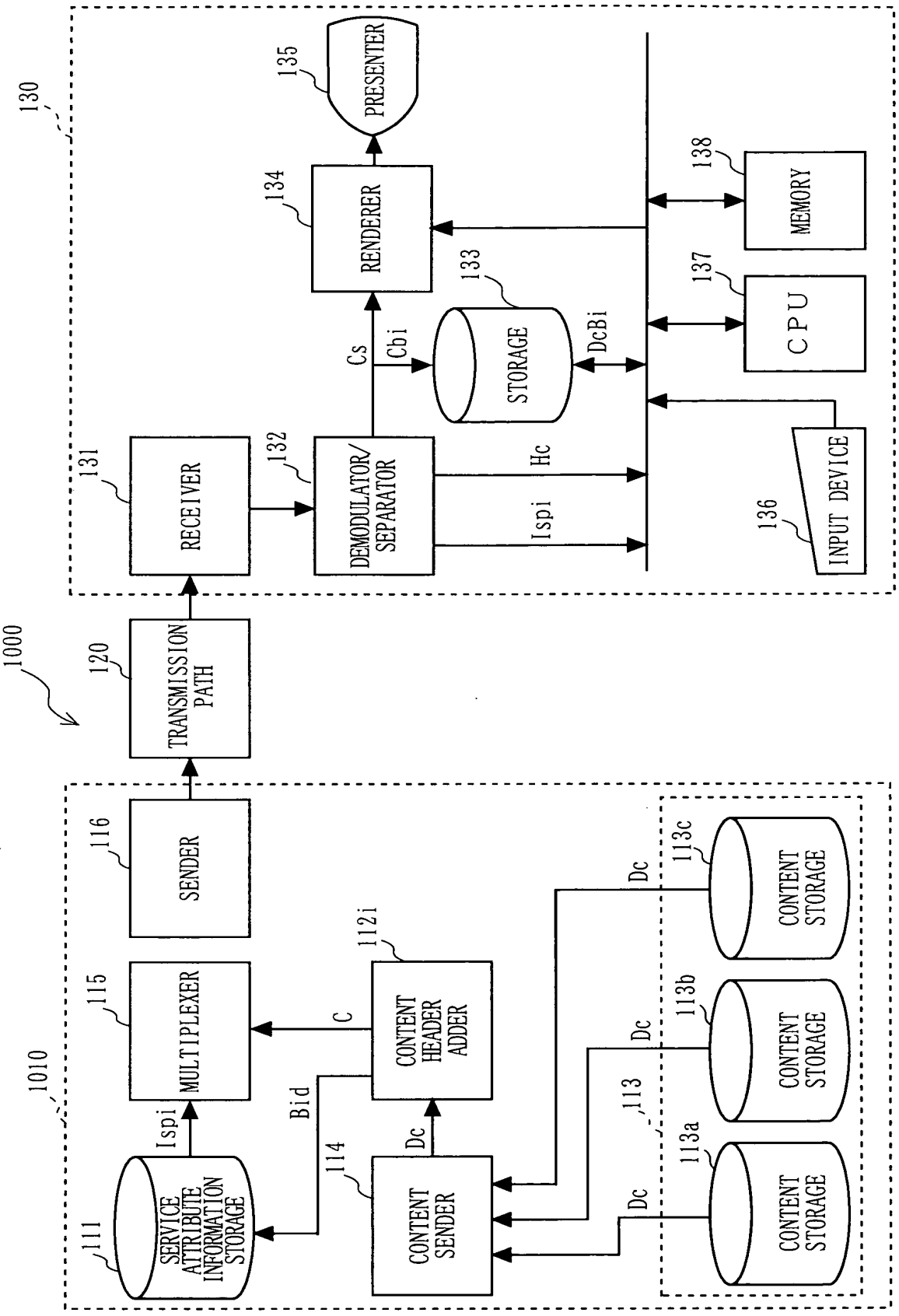
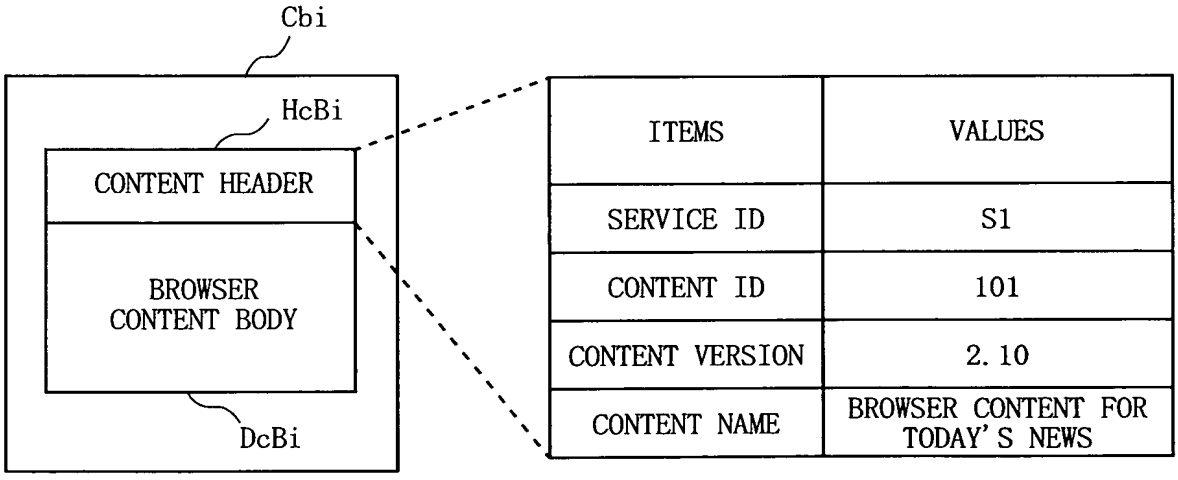

1000
1010
130
131
RECEIVER
132
DEMODULATOR/
SEPARATOR
133
STORAGE
134
RENDERER
135
PRESENTER
136
INPUT DEVICE
137
CPU
138
MEMORY
120
TRANSMISSION
PATH
116
SENDER
115
MULTIPLEXER
112i
CONTENT
HEADER
ADDER
111
SERVICE
ATTRIBUTE
INFORMATION
STORAGE
114
CONTENT
SENDER
113
113a
CONTENT
STORAGE
113b
CONTENT
STORAGE
113c
CONTENT
STORAGE
Ispi
Bid
C
Dc
Dc
Dc
Dc
Cs
Cbi
DcBi
Hc
Ispi

FIG. 16

Ispi

SERVICE ID	SERVICE NAME	BROWSER CONTENT DESIGNATION INFORMATION	
		CONTENT ID	CONTENT VERSION
S 1	TODAY'S NEWS	101	2.10
S 2	RECOMMENDATION INFORMATION	204	3.00
S 3	NEW CAR GUIDE	312	1.10

FIG. 17



ITEMS	VALUES
SERVICE ID	S1
CONTENT ID	101
CONTENT VERSION	2.10
CONTENT NAME	BROWSER CONTENT FOR TODAY'S NEWS

FIG. 18

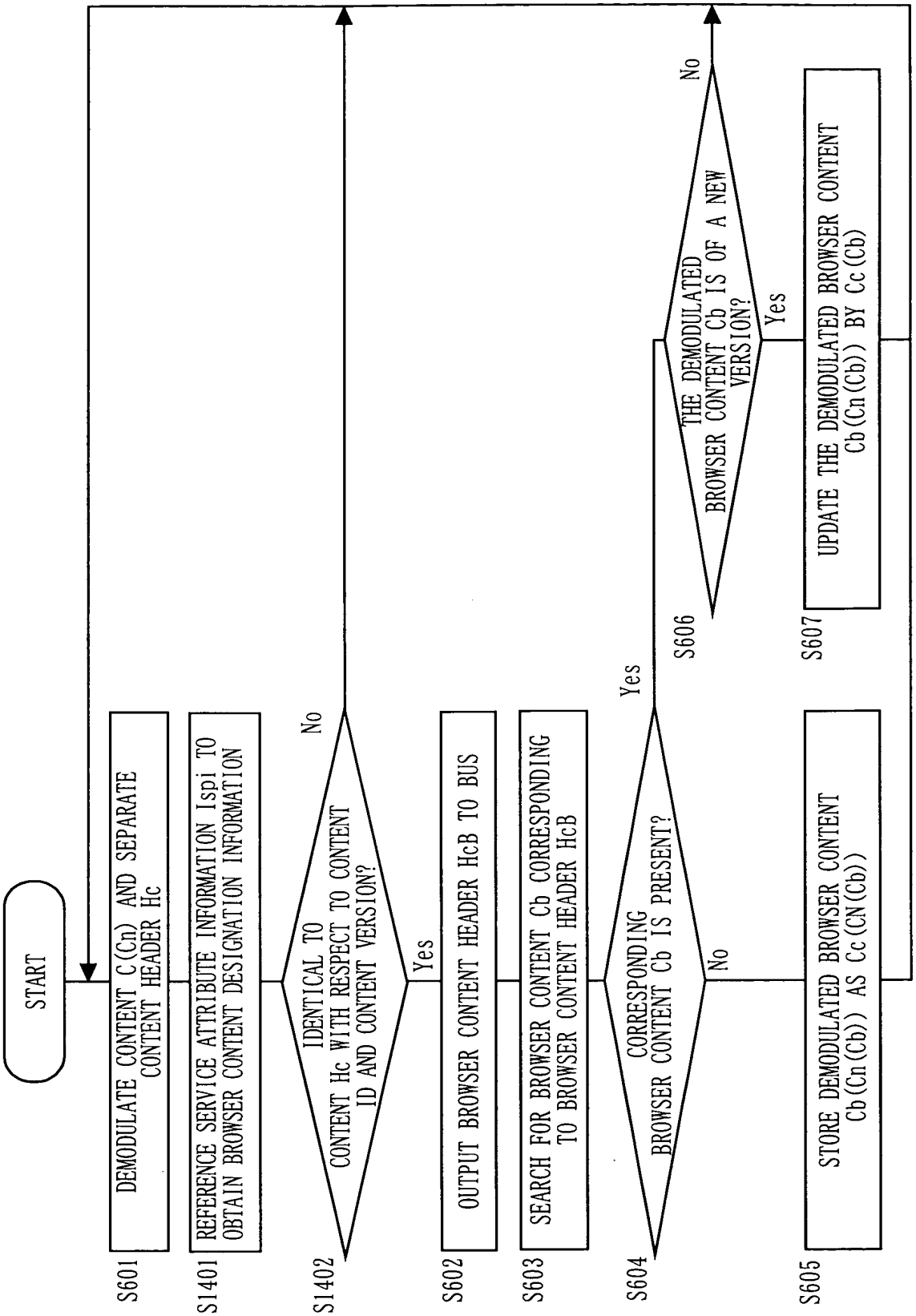

START
S601
DEMODULATE CONTENT C(Cn) AND SEPARATE CONTENT HEADER Hc
S1401
REFERENCE SERVICE ATTRIBUTE INFORMATION Ispi TO OBTAIN BROWSER CONTENT DESIGNATION INFORMATION
S1402
IDENTICAL TO CONTENT Hc WITH RESPECT TO CONTENT ID AND CONTENT VERSION?
No
Yes
S602
OUTPUT BROWSER CONTENT HEADER HcB TO BUS
S603
SEARCH FOR BROWSER CONTENT Cb CORRESPONDING TO BROWSER CONTENT HEADER HcB
S604
CORRESPONDING BROWSER CONTENT Cb IS PRESENT?
Yes
No
S606
THE DEMODULATED BROWSER CONTENT Cb IS OF A NEW VERSION?
No
Yes
S605
STORE DEMODULATED BROWSER CONTENT Cb(Cn(Cb)) AS Cc(CN(Cb))
S607
UPDATE THE DEMODULATED BROWSER CONTENT Cb(Cn(Cb)) BY Cc(Cb)

FIG. 19

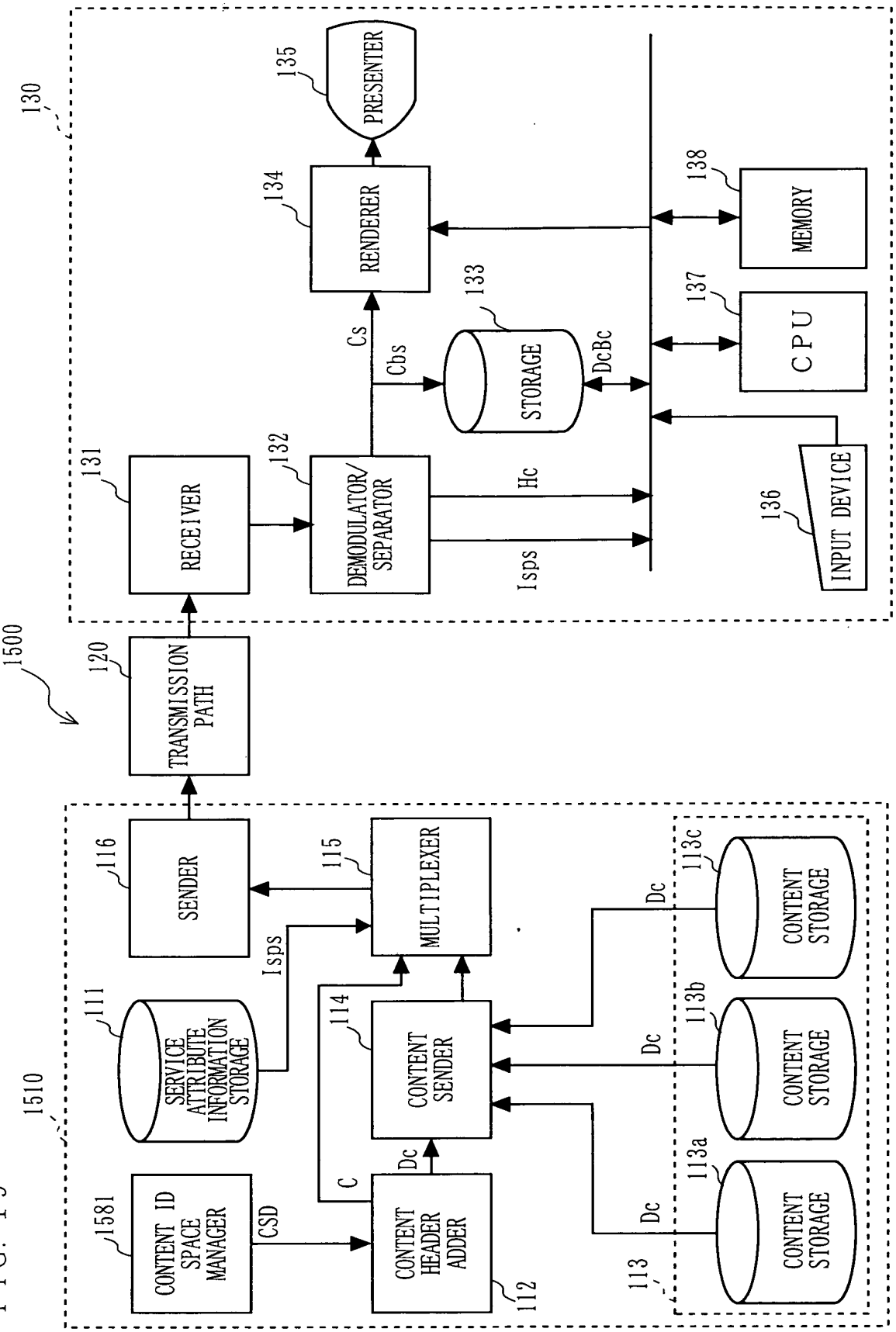

1500
1510
130
CONTENT ID SPACE MANAGER
1581
CSD
CONTENT HEADER ADDER
112
C
Dc
CONTENT SENDER
114
SERVICE ATTRIBUTE INFORMATION STORAGE
111
Isps
SENDER
116
MULTIPLEXER
115
TRANSMISSION PATH
120
RECEIVER
131
DEMODULATOR/ SEPARATOR
132
Cs
Cbs
Hc
Isps
STORAGE
133
DcBc
RENDERER
134
PRESENTER
135
INPUT DEVICE
136
CPU
137
MEMORY
138
113
113a
113b
113c
CONTENT STORAGE

FIG. 20

Isps

SERVICE ID	SERVICE NAME
S 1	TODAY'S NEWS
S 2	RECOMMENDATION INFORMATION
S 3	NEW CAR GUIDE

FIG. 21

CSD

RANGES OF CONTENT ID	TYPE	SERVICE ID
0 ～99	BROWSER CONTENT	--
100 ～199	SERVICE CONTENT	S 1
200 ～299	SERVICE CONTENT	S 2
300 ～399	SERVICE CONTENT	S 3

FIG. 22

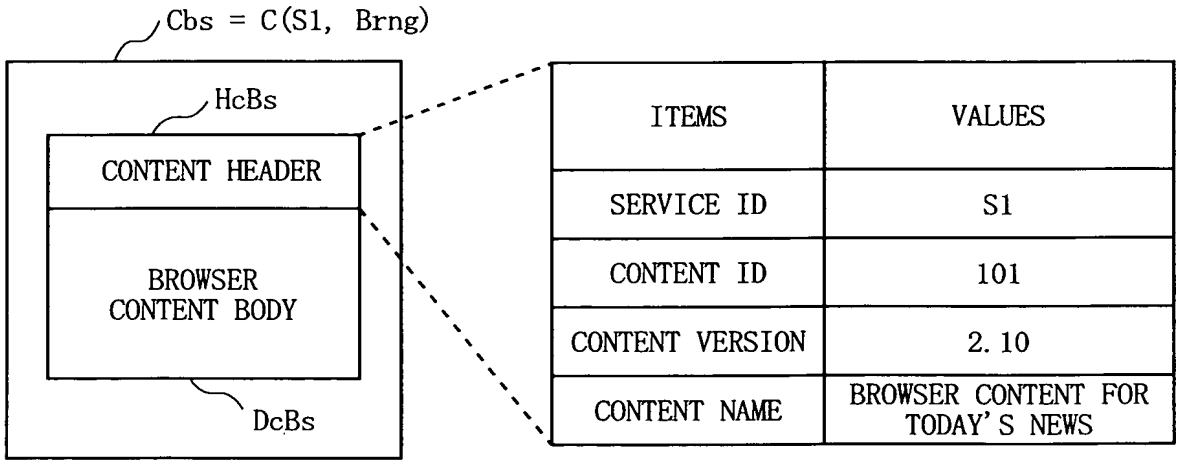


FIG. 23

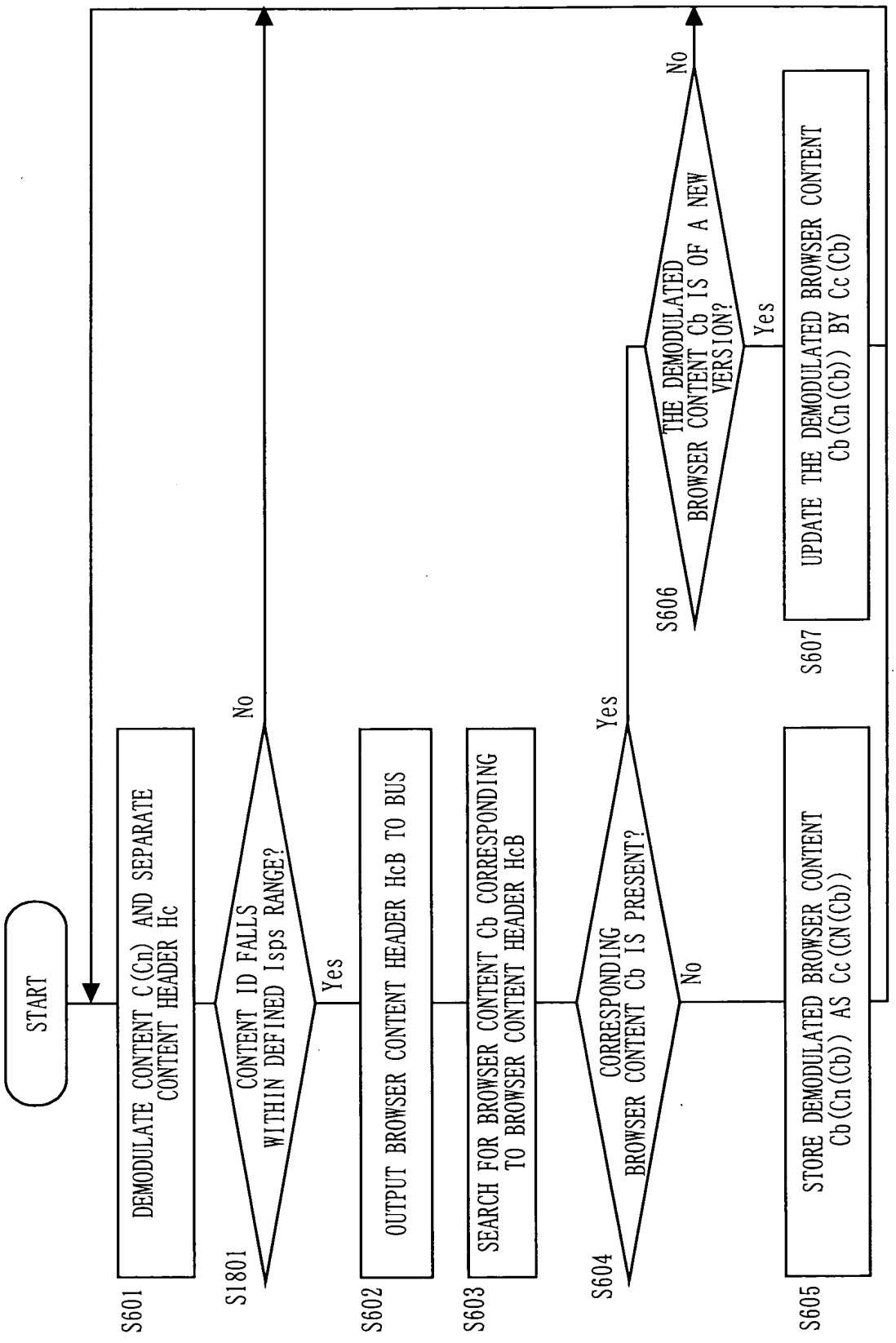

START
S601
DEMODULATE CONTENT C(Cn) AND SEPARATE CONTENT HEADER Hc
S1801
CONTENT ID FALLS WITHIN DEFINED Isps RANGE?
No
Yes
S602
OUTPUT BROWSER CONTENT HEADER HcB TO BUS
S603
SEARCH FOR BROWSER CONTENT Cb CORRESPONDING TO BROWSER CONTENT HEADER HcB
S604
CORRESPONDING BROWSER CONTENT Cb IS PRESENT?
Yes
No
S605
STORE DEMODULATED BROWSER CONTENT Cb(Cn(Cb)) AS Cc(CN(Cb))
S606
THE DEMODULATED BROWSER CONTENT Cb IS OF A NEW VERSION?
No
Yes
S607
UPDATE THE DEMODULATED BROWSER CONTENT Cb(Cn(Cb)) BY Cc(Cb)

FIG. 24

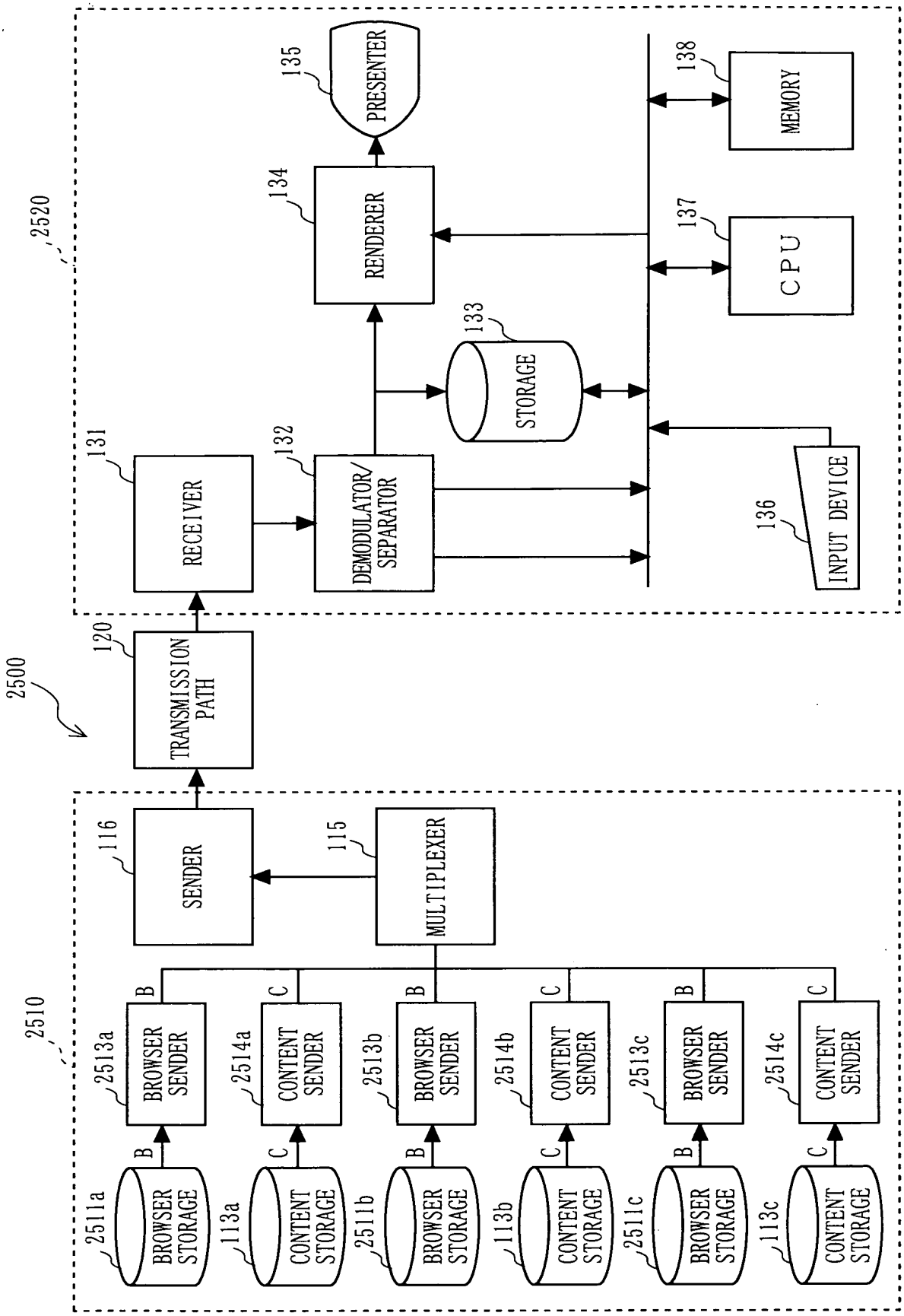

2500
2510
2511a
BROWSER STORAGE
113a
CONTENT STORAGE
2511b
BROWSER STORAGE
113b
CONTENT STORAGE
2511c
BROWSER STORAGE
113c
CONTENT STORAGE
B
C
2513a
BROWSER SENDER
2514a
CONTENT SENDER
2513b
BROWSER SENDER
2514b
CONTENT SENDER
2513c
BROWSER SENDER
2514c
CONTENT SENDER
115
MULTIPLEXER
116
SENDER
120
TRANSMISSION PATH
2520
131
RECEIVER
132
DEMODULATOR/ SEPARATOR
133
STORAGE
134
RENDERER
135
PRESENTER
136
INPUT DEVICE
137
CPU
138
MEMORY

FIG. 25

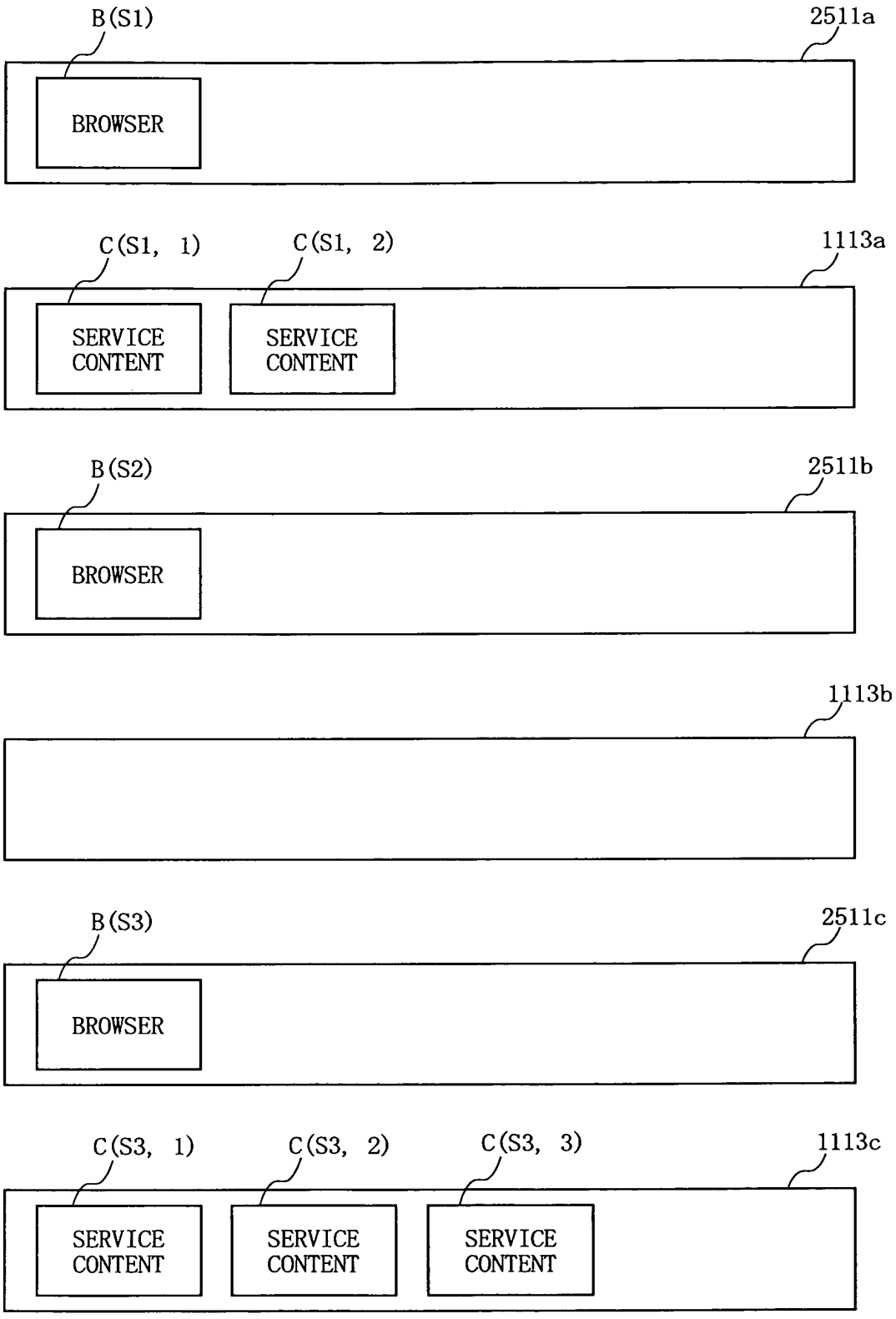

B(S1)
2511a
BROWSER
C(S1, 1)
C(S1, 2)
1113a
SERVICE CONTENT
SERVICE CONTENT
B(S2)
2511b
BROWSER
1113b
B(S3)
2511c
BROWSER
C(S3, 1)
C(S3, 2)
C(S3, 3)
1113c
SERVICE CONTENT
SERVICE CONTENT
SERVICE CONTENT

FIG. 26

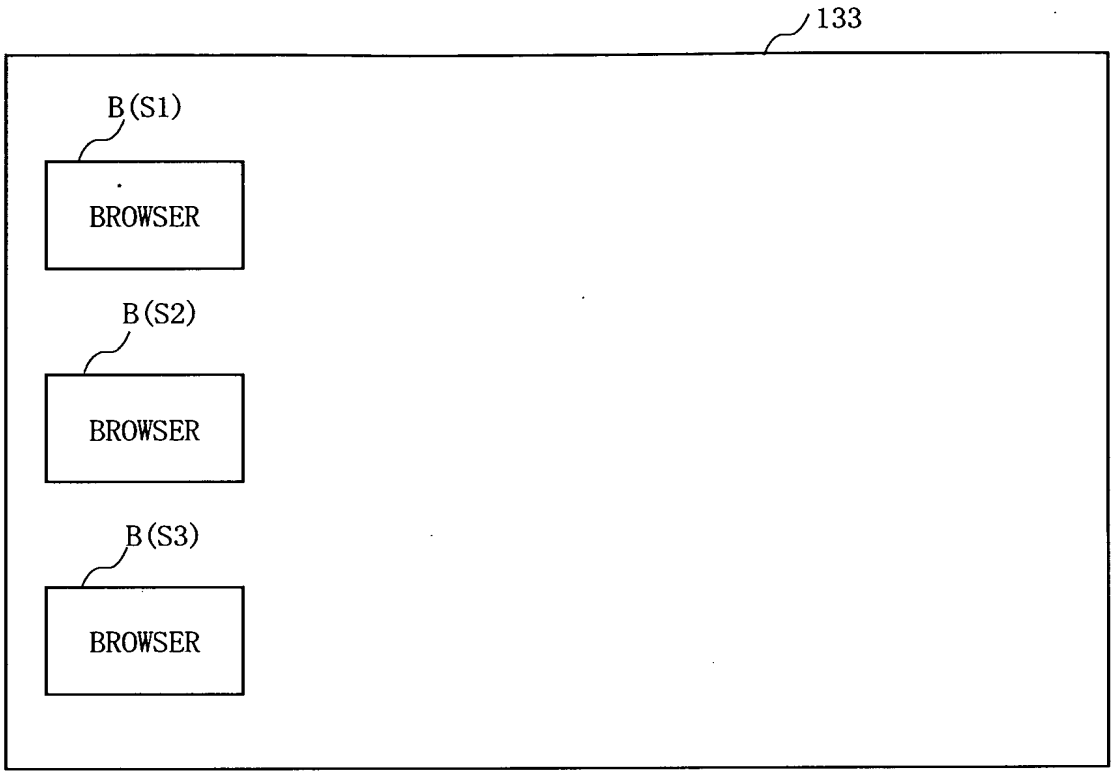

133
B(S1)
BROWSER
B(S2)
BROWSER
B(S3)
BROWSER

FIG. 27

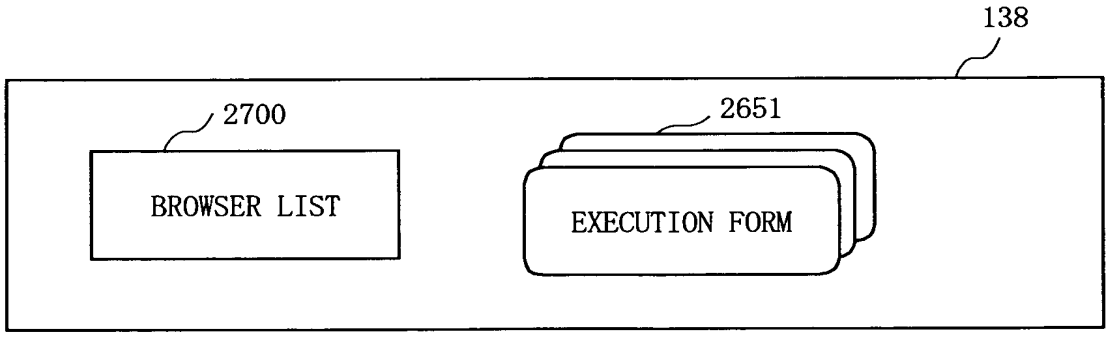
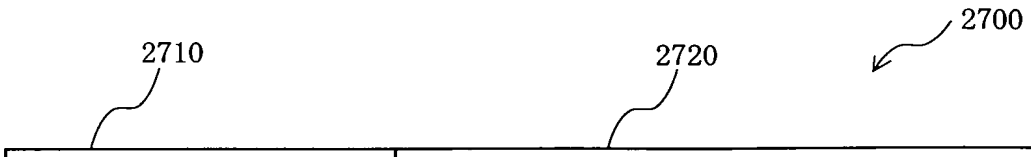

138
2700
BROWSER LIST
2651
EXECUTION FORM

FIG. 28



SERVICE ID	SERVICE NAME
B (S 1)	TODAY'S NEWS
B (S 2)	RECOMMENDATION INFORMATION
B (S 3)	NEW CAR GUIDE

FIG. 29

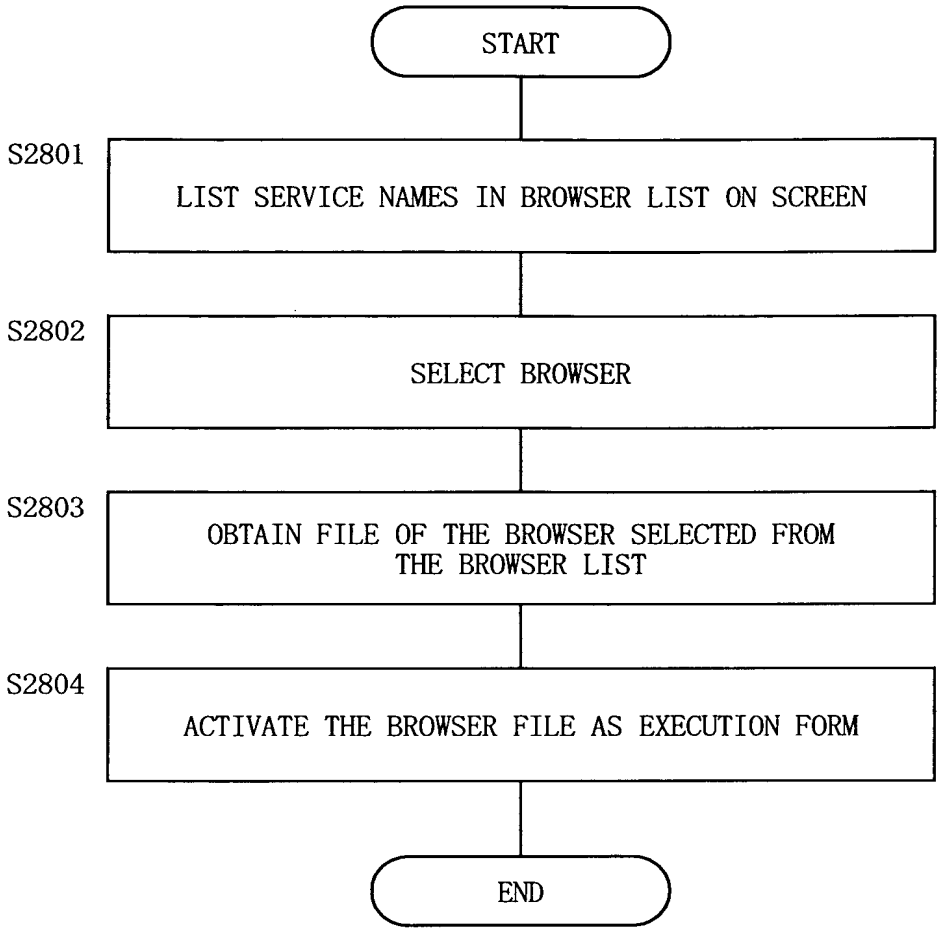
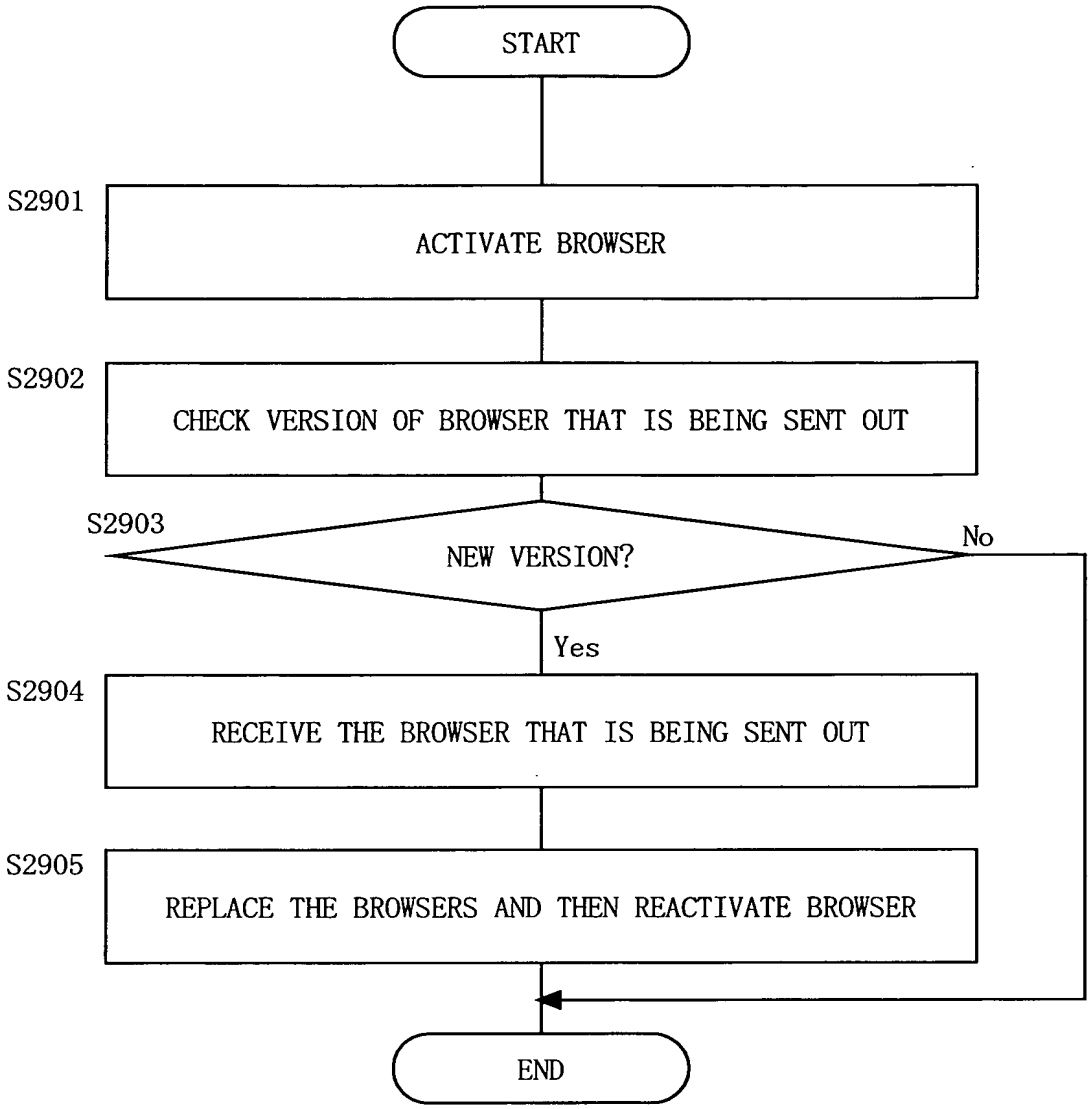

START
S2801
LIST SERVICE NAMES IN BROWSER LIST ON SCREEN
S2802
SELECT BROWSER
S2803
OBTAIN FILE OF THE BROWSER SELECTED FROM THE BROWSER LIST
S2804
ACTIVATE THE BROWSER FILE AS EXECUTION FORM
END

FIG. 30


START
S2901
ACTIVATE BROWSER
S2902
CHECK VERSION OF BROWSER THAT IS BEING SENT OUT
S2903
NEW VERSION?
No
Yes
S2904
RECEIVE THE BROWSER THAT IS BEING SENT OUT
S2905
REPLACE THE BROWSERS AND THEN REACTIVATE BROWSER
END